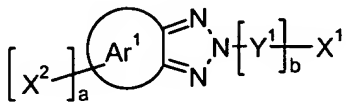
Claims

1. **(currently amended)** An electroluminescent device, comprising a 2H-benzotriazole compound of the formula



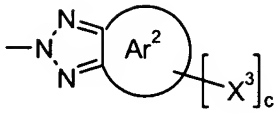
(I),

where

a is 0, or 1,

b is 0, or 1,

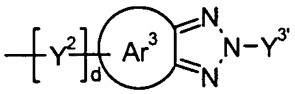
X^1 is a group of formula



, if b is 1, or Y^3, if b is 0, wherein

c is 0, or 1

X^2 and X^3 are independently of each other a group of formula

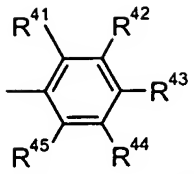


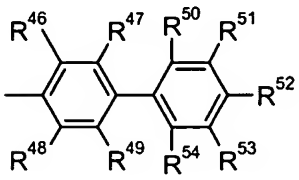
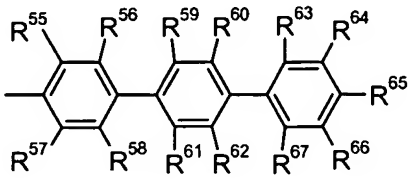
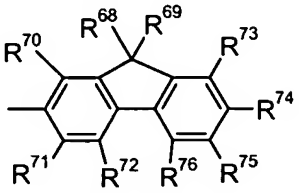
, wherein d is 0, or 1,

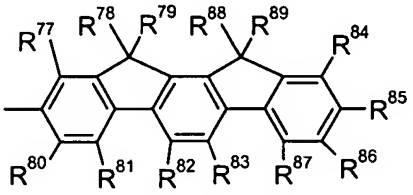
Ar^1, Ar^2, and Ar^3 are independently of each other C_6-C_{30}aryl or a C_2-C_{26}heteroaryl, which can optionally be substituted,

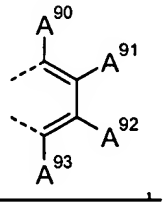
Y^1 and Y^2 are independently of each other a divalent linking group, and

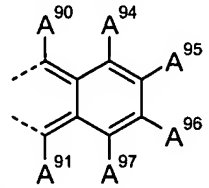
~~Y^3 and $Y^{3'}$ are independently of each other C_6-C_{30}aryl or a C_2-C_{26}heteroaryl, which can optionally be substituted~~

Y^3 and $Y^{3'}$ are independently of each other a group of formula  ,

 ,  ,  , or

 , wherein

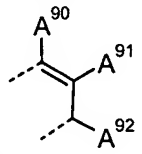
R^{41}, R^{42}, R^{43}, R^{44}, R^{45}, R^{46}, R^{47}, R^{48}, R^{49}, R^{50}, R^{51}, R^{52}, R^{53}, R^{54}, R^{55}, R^{56}, R^{57}, R^{58}, R^{59}, R^{60}, R^{61}, R^{62}, R^{63}, R^{64}, R^{65}, R^{66}, R^{67}, R^{70}, R^{71}, R^{72}, R^{73}, R^{74}, R^{75}, R^{76}, R^{77}, R^{80}, R^{81}, R^{82}, R^{83}, R^{84}, R^{85}, R^{86}, and R^{87} are independently of each other H, C_1-C_{24}alkyl, which is optionally substituted by E and/or interrupted by D, C_1-C_{24}alkenyl, which is optionally substituted by E, C_5-C_{12}cycloalkyl, which is optionally substituted by E, C_5-C_{12}cycloalkoxy, which is optionally substituted by E, C_6-C_{18}aryl, which is optionally substituted by E, C_1-C_{24}alkoxy, which is optionally substituted by E and/or interrupted by D, C_6-C_{18}aryloxy, which is optionally substituted by E, C_7-C_{18}arylalkoxy, which is optionally substituted by E, C_1-C_{24}alkylthio, which is optionally substituted by E and/or interrupted by D, C_1-C_{24}alkylselenium, which is optionally substituted by E and/or interrupted by D, C_1-C_{24}alkyltellurium, which is optionally substituted by E and/or interrupted by D, C_2-C_{20}heteroaryl which is substituted by E, or C_6-C_{18}aralkyl, which is optionally substituted by E, or two groups R^{41}, R^{42}, R^{43}, R^{44}, R^{45}, R^{46}, R^{47}, R^{48}, R^{49}, R^{50}, R^{51}, R^{52}, R^{53}, R^{54}, R^{55}, R^{56}, R^{57}, R^{58}, R^{59}, R^{60}, R^{61}, R^{62}, R^{63}, R^{64}, R^{65}, R^{66}, R^{67}, R^{70}, R^{71}, R^{72}, R^{73}, R^{74}, R^{75}, R^{76}, R^{77}, R^{80}, R^{81}, R^{82}, R^{83}, R^{84}, R^{85}, R^{86}, and R^{87}, which are neighbouring to each other, are a group  ,

or  , wherein A^{90}, A^{91}, A^{92}, A^{93}, A^{94}, A^{95}, A^{96} and A^{97} are independently of each

other H, halogen, hydroxy, C_1-C_{24}alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_1-C_{24}perfluoroalkyl, C_5-C_{12}cycloalkyl, C_5-C_{12}cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or $-NR^{25}$-, C_5-C_{12}cycloalkoxy, C_5-C_{12}cycloalkoxy which is substituted by E, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{24}alkenyl, C_2-C_{24}alkynyl, C_1-C_{24}alkoxy, C_1-C_{24}alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25}aralkyl, C_7-C_{25}aralkyl, which is substituted by E, C_7-C_{25}aralkoxy, C_7-C_{25}aralkoxy which is substituted by E, or $-CO-R^{28}$,

R^{68}, R^{69}, R^{78}, R^{79}, R^{88} and R^{89} are independently of each other C_1-C_{18} alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{24}alkenyl, C_2-C_{24}alkynyl, C_1-C_{24}alkoxy, C_1-C_{24}alkoxy which is substituted by E and/or interrupted by D, or C_7-C_{25}aralkyl, or

R^{68} and R^{69}, R^{78} and R^{79}, and/or R^{88} and R^{89} form a five- or six-membered ring, or

R^{68} and R^{70}, R^{69} and R^{73}, R^{77} and R^{78} and/or R^{84} and R^{89} are a group 

,

D is -CO-; -COO-; -S-; -SO-; $-SO_2$-; -O-; $-NR^{25}$-; $-SiR^{30}R^{31}$-; $-POR^{32}$-; $-CR^{23}=CR^{24}$-; or -C≡C-; and

E is $-OR^{29}$; $-SR^{29}$; $-NR^{25}R^{26}$; $-COR^{28}$; $-COOR^{27}$; $-CONR^{25}R^{26}$; -CN; $-OCOOR^{27}$; or halogen;

wherein

R^{23}, R^{24}, R^{25} and R^{26} are independently of each other H; C_6-C_{18}aryl; C_6-C_{18}aryl which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-; or

R^{25} and R^{26} together form a five or six membered ring,

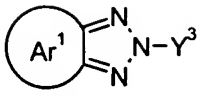
R^{27} and R^{28} are independently of each other H; C_6-C_{18}aryl; C_6-C_{18}aryl which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-,

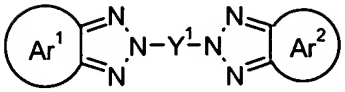
R^{29} is H; C_6-C_{18}aryl; C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-,

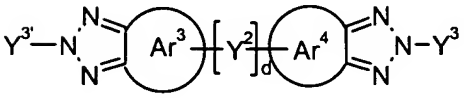
R^{30} and R^{31} are independently of each other C_1-C_{24}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl, and

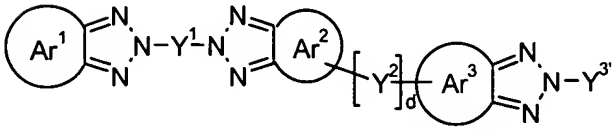
R^{32} is C_1-C_{24}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl.

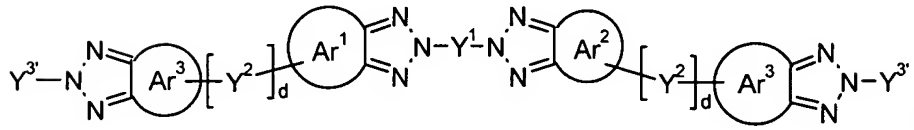
2. **(currently amended)** An electroluminescent device according to claim 1, comprising a 2H-benzotriazole compound of the formula


(II),


(III),


(IV),


(V), and/or


(VI), wherein

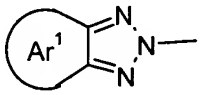
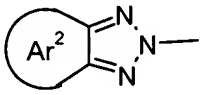
d, Ar^1, Ar^2, Ar^3, Y^1 and Y^2 are defined as in claim **1[[,]]** <u>and</u>

Ar^4 stand for C_6-C_{30}aryl or a C_2-C_{26}heteroaryl, which can optionally be substituted**[[,]]**

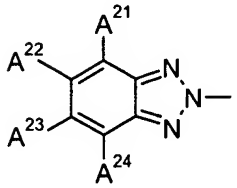
~~and~~

~~Y^3 and $Y^{3'}$ are independently of each other C_6-C_{30}aryl or a C_2-C_{26}heteroaryl, which can optionally be substituted~~.

3. (previously presented) An electroluminescent device according to claim **2**, wherein


and


in formula II or III are independently of each other a group of formula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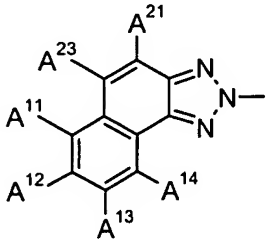
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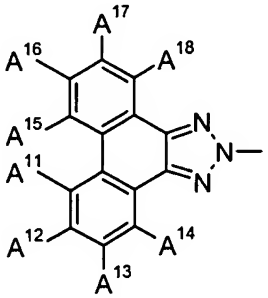
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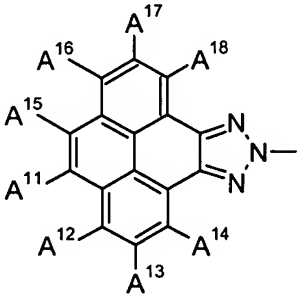
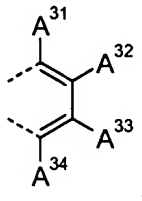
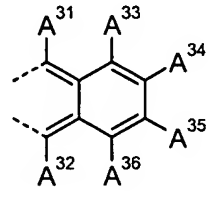

,

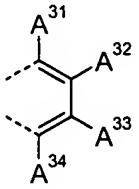
wherein

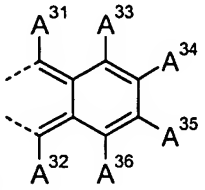
A^{21}, A^{22}, A^{23}, A^{24}, A^{11}, A^{12}, A^{13}, A^{14}, A^{15}, A^{16}, A^{17} and A^{18} are independently of each other H, halogen, hydroxy, C_1-C_{24}alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_1-C_{24}perfluoroalkyl, C_5-C_{12}cycloalkyl, C_5-C_{12}cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR^{25}-, -$NR^{25}R^{26}$, C_1-C_{24}alkylthio, -PR^{32} R^{32}, C_5-C_{12}cycloalkoxy, C_5-C_{12}cycloalkoxy which is substituted by E, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{24}alkenyl, C_2-C_{24}alkynyl, C_1-C_{24}alkoxy, C_1-C_{24}alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25}aralkyl, C_7-C_{25}aralkyl, which is substituted by E, C_7-C_{25}aralkoxy, C_7-C_{25}aralkoxy which is substituted by E, or -CO-R^{28}, or

A^{22} and A^{23} or A^{11} and A^{23} are a group 

, or 

, or

two groups A^{11}, A^{12}, A^{13}, A^{14}, A^{15}, A^{16}, A^{17} and A^{18}, which are neighbouring to each other, are a group 

, or 

, wherein A^{31}, A^{32}, A^{33}, A^{34}, A^{35}, A^{36} and A^{37} are independently of each other H, halogen, hydroxy, C_1-C_{24}alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_1-C_{24}perfluoroalkyl, C_5-C_{12}cycloalkyl, C_5-C_{12}cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR^{25}-, C_5-C_{12}cycloalkoxy, C_5-C_{12}cycloalkoxy which is substituted by E, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{24}alkenyl, C_2-C_{24}alkynyl, C_1-C_{24}alkoxy, C_1-C_{24}alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25}aralkyl, C_7-C_{25}aralkyl, which is substituted by E, C_7-C_{25}aralkoxy, C_7-C_{25}aralkoxy which is substituted by E, or -CO-R^{28},

D is -CO-; -COO-; -S-; -SO-; -SO_2-; -O-; -NR^{25}-; -$SiR^{30}R^{31}$-; -POR^{32}-; -CR^{23}=CR^{24}-; or -C≡C-; and

E is -OR^{29}; -SR^{29}; -$NR^{25}R^{26}$; -COR^{28}; -$COOR^{27}$; -$CONR^{25}R^{26}$; -CN; -$OCOOR^{27}$; or halogen;

wherein

R^{23}, R^{24}, R^{25} and R^{26} are independently of each other H; C_6-C_{18}aryl; C_6-C_{18}aryl which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-; or

R^{25} and R^{26} together form a five or six membered ring,

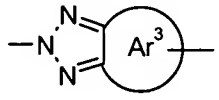
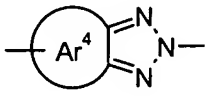
R^{27} and R^{28} are independently of each other H; C_6-C_{18}aryl; C_6-C_{18}aryl which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-,

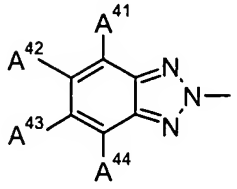
R^{29} is H; C_6-C_{18}aryl; C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-,

R^{30} and R^{31} are independently of each other C_1-C_{24}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl, and

R^{32} is C_1-C_{24}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl.

4. (previously presented) An electroluminescent device according to claim **2**, wherein


and

in formula IV are independently of each other a group of formula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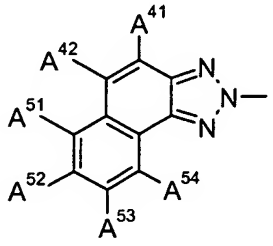
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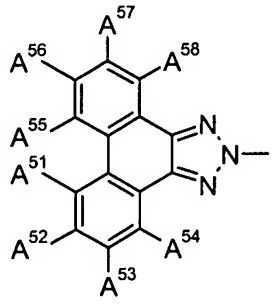
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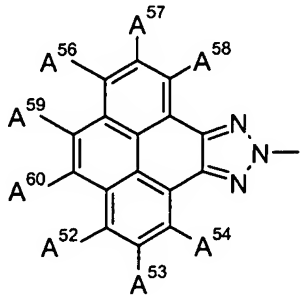
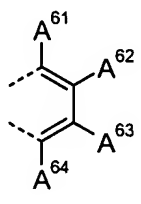
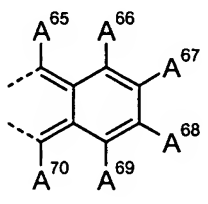
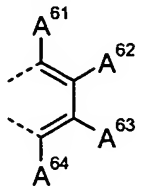
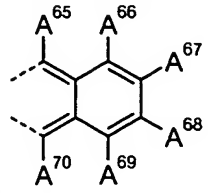

,

wherein

A^{41}, A^{42}, A^{43}, A^{44}, A^{51}, A^{52}, A^{53}, A^{54}, A^{55}, A^{56}, A^{57}, A^{58}, A^{59} and A^{60} are independently of each other H, halogen, hydroxy, C_1-C_{24}alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_1-C_{24}perfluoroalkyl, C_5-C_{12}cycloalkyl, C_5-C_{12}cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR^{25}-, $NR^{25}R^{26}$, C_1-C_{24}alkylthio, -$PR^{32}R^{32}$, C_5-C_{12}cycloalkoxy, C_5-C_{12}cycloalkoxy which is substituted by E, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{24}alkenyl, C_2-C_{24}alkynyl, C_1-C_{24}alkoxy, C_1-C_{24}alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25}aralkyl, C_7-C_{25}aralkyl, which is substituted by E, C_7-C_{25}aralkoxy, C_7-C_{25}aralkoxy which is substituted by E, or -CO-R^{28}, or

A^{42} and A^{43} or A^{42} and A^{51} are a group

, or

,

two groups A^{51}, A^{52}, A^{53}, A^{54}, A^{55}, A^{56}, A^{57}, A^{58}, A^{59} and A^{60}, which are neighbouring to each other, are a group  , or  , wherein A^{61}, A^{62}, A^{63}, A^{64}, A^{65}, A^{66}, A^{67}, A^{68}, A^{69} and A^{70} are independently of each other H, halogen, hydroxy, C_1-C_{24}alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_1-C_{24}perfluoroalkyl, C_5-C_{12}cycloalkyl, C_5-C_{12}cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or $-NR^{25}$-, C_5-C_{12}cycloalkoxy, C_5-C_{12}cycloalkoxy which is substituted by E, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{24}alkenyl, C_2-C_{24}alkynyl, C_1-C_{24}alkoxy, C_1-C_{24}alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25}aralkyl, C_7-C_{25}aralkyl, which is substituted by E, C_7-C_{25}aralkoxy, C_7-C_{25}aralkoxy which is substituted by E, or $-CO-R^{28}$,

D is -CO-; -COO-; -S-; -SO-; $-SO_2$-; -O-; $-NR^{25}$-; $-SiR^{30}R^{31}$-; $-POR^{32}$-; $-CR^{23}=CR^{24}$-; or -C≡C-; and

E is $-OR^{29}$; $-SR^{29}$; $-NR^{25}R^{26}$; $-COR^{28}$; $-COOR^{27}$; $-CONR^{25}R^{26}$; -CN; $-OCOOR^{27}$; or halogen;

wherein

R^{23}, R^{24}, R^{25} and R^{26} are independently of each other H; C_6-C_{18}aryl; C_6-C_{18}aryl which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-; or

R^{25} and R^{26} together form a five or six membered ring,

R^{27} and R^{28} are independently of each other H; C_6-C_{18}aryl; C_6-C_{18}aryl which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-,

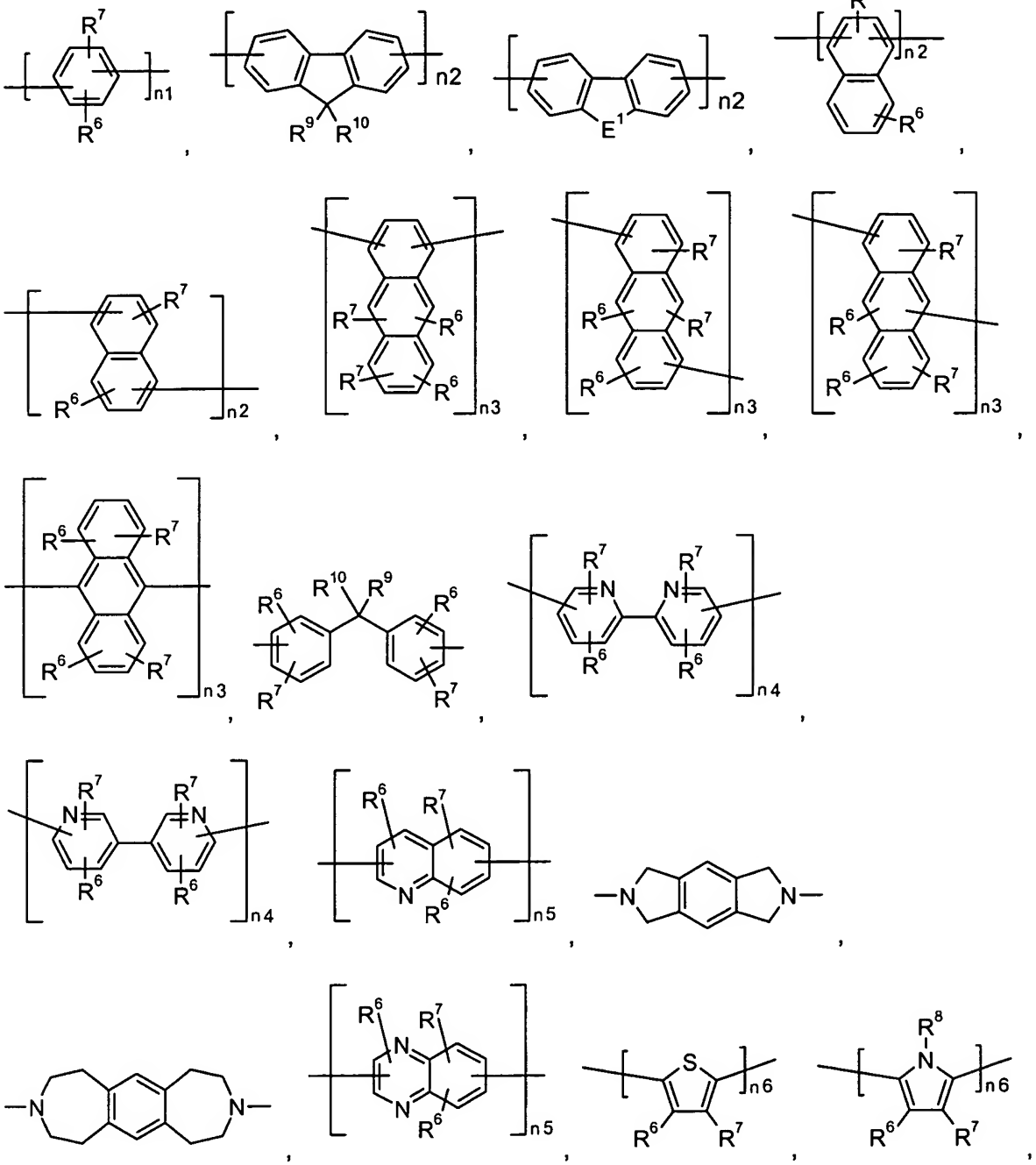
R^{29} is H; C_6-C_{18}aryl; C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-,

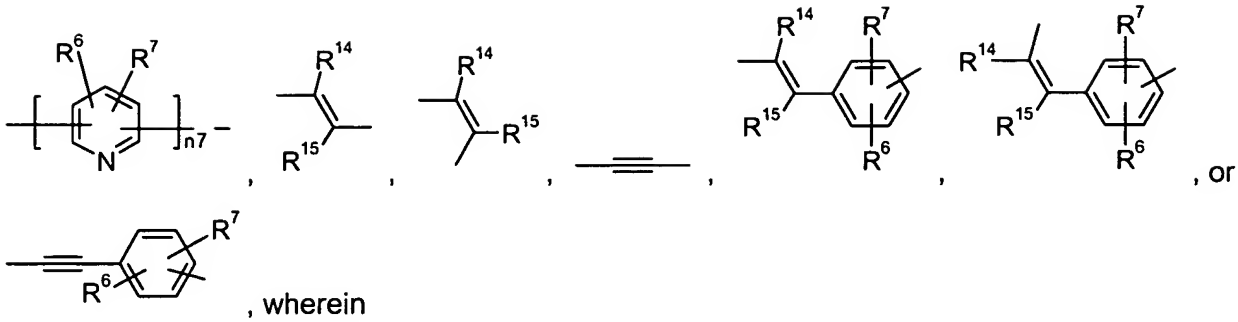
R^{30} and R^{31} are independently of each other C_1-C_{24}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl, and

R^{32} is C_1-C_{24}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl, wherein one of the substituents A^{41}, A^{42}, A^{43}, A^{44}, A^{51}, A^{52}, A^{53}, A^{54}, A^{55}, A^{56}, A^{57}, A^{58}, A^{59}, A^{60}, A^{61}, A^{62}, A^{63}, A^{64}, A^{65}, A^{66}, A^{67}, A^{68}, A^{69} and A^{70} represents a single bond.

5. (canceled)

6. (previously presented) An electroluminescent device according to claim **1**, wherein Y^1 and Y^2 are independently of each other





, wherein

n1, n2, n3, n4, n5, n6 and n7 are 1, 2, or 3,

E^1 is -S-, -O-, or -$NR^{25'}$-, wherein $R^{25'}$ is C_1-C_{24}alkyl, or C_6-C_{10}aryl,

R^6 and R^7 are independently of each other H, halogen, hydroxy, C_1-C_{24}alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_1-C_{24}perfluoroalkyl, C_5-C_{12}cycloalkyl, C_5-C_{12}cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR^{25}-, C_5-C_{12}cycloalkoxy, C_5-C_{12}cycloalkoxy which is substituted by E, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{24}alkenyl, C_2-C_{24}alkynyl, C_1-C_{24}alkoxy, C_1-C_{24}alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25}aralkyl, C_7-C_{25}aralkyl, which is substituted by E, C_7-C_{25}aralkoxy, C_7-C_{25}aralkoxy which is substituted by E, or -CO-R^{28},

R^8 is C_1-C_{24}alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24} aryl, or C_7-C_{25}aralkyl,

R^9 and R^{10} are independently of each other C_1-C_{24}alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{24}alkenyl, C_2-C_{24}alkynyl, C_1-C_{24}alkoxy, C_1-C_{24}alkoxy which is substituted by E and/or interrupted by D, or C_7-C_{25}aralkyl, or

R^9 and R^{10} form a five- or six-membered ring,

R^{14} and R^{15} are independently of each other H, C_1-C_{24}alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, or C_2-C_{20}heteroaryl which is substituted by E,

D is -CO-, -COO-, -S-, -SO-, -SO_2-, -O-, -NR^{25}-, -$SiR^{30}R^{31}$-, -POR^{32}-, -CR^{23}=CR^{24}-, or -C≡C-, and

E is -OR^{29}, -SR^{29}, -$NR^{25}R^{26}$, -COR^{28}, -$COOR^{27}$, -$CONR^{25}R^{26}$, -CN, -$OCOOR^{27}$, or halogen,

wherein

R^{23}, R^{24}, R^{25} and R^{26} are independently of each other H, C_6-C_{18}aryl, C_6-C_{18}aryl which is substituted by C_1-C_{24}alkyl, C_1-C_{24}alkoxy, C_1-C_{24}alkyl, or C_1-C_{24}alkyl which is interrupted by –O-, or.

R^{25} and R^{26} together form a five or six membered ring,

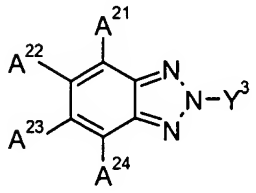
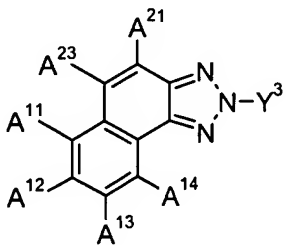
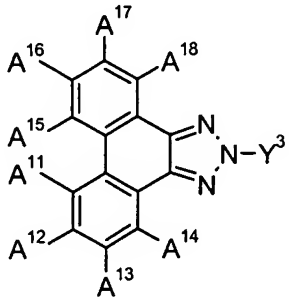
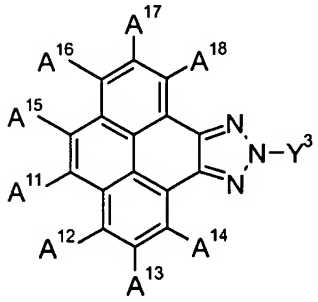
R^{27} and R^{28} are independently of each other H, C_6-C_{18}aryl, C_6-C_{18}aryl which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy, C_1-C_{24}alkyl, or C_1-C_{24}alkyl which is interrupted by –O-,

R^{29} is H, C_6-C_{18}aryl, C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl, C_1-C_{24}alkoxy, C_1-C_{24}alkyl, or C_1-C_{24}alkyl which is interrupted by –O-,

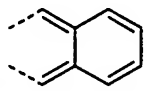
R^{30} and R^{31} are independently of each other C_1-C_{24}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl, and

R^{32} is C_1-C_{24}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl.

7. **(previously presented)** An electroluminescent device according to claim **2**, wherein the 2H-benzotriazole compound is a compound of formula

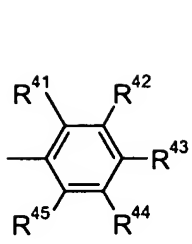
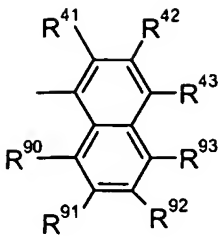
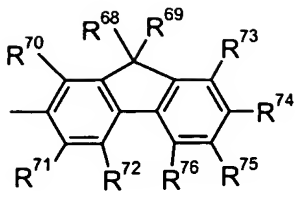

(IIa),

(IIb),

(IIc), or

(IId), wherein

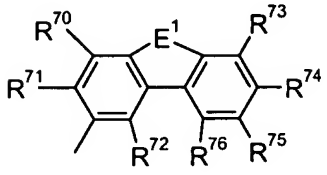
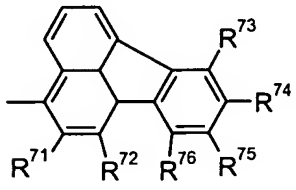
A^{21}, A^{22}, A^{23} and A^{24} are independently of each other hydrogen, halogen, C_1-C_{24}alkyl, C_1-C_{24}perfluoroalkyl, C_6-C_{18}aryl, -$NR^{25}R^{26}$, -$CONR^{25}R^{26}$, or -$COOR^{27}$, or C_2-C_{10}heteroaryl, or

A^{22} and A^{23} or A^{11} and A^{23} are a group of formula  , or  ,

A^{11}, A^{12}, A^{13}, A^{14}, A^{15}, A^{16}, A^{17}, and A^{18} are independently of each other H, CN, C_1-C_{24}alkyl, C_1-C_{24}alkoxy, C_1-C_{24}alkylthio, C_6-C_{18}aryl, -$NR^{25}R^{26}$, -$CONR^{25}R^{26}$, or -$COOR^{27}$, or C_2-C_{10}heteroaryl, wherein

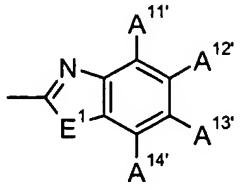
R^{25} and R^{26} are independently of each other H, C_6-C_{18}aryl, C_7-C_{18}aralkyl, or C_1-C_{24}alkyl, R^{27} is C_1-C_{24}alkyl, and

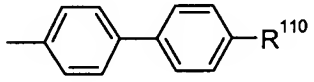
Y^3 is a group of formula  ,  ,  ,

 or  , wherein

R^{41} is hydrogen, C_1-C_{24}alkoxy, or OC_7-C_{18}aralkyl,

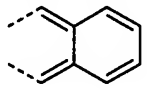
R^{42} is hydrogen, or C_1-C_{24}alkyl,

R^{43} is hydrogen, halogen, $-CONR^{25}R^{26}$, $-COOR^{27}$,  , or

 , wherein

E^1 is -S-, -O-, or $-NR^{25'}$-, wherein $R^{25'}$ is C_1-C_{24}alkyl, or C_6-C_{10}aryl,

R^{110} is H, CN, C_1-C_{24}alkyl, C_1-C_{24}alkoxy, C_1-C_{24}alkylthio, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$, or

R^{42} and R^{43} are a group of formula  , or  ,

R^{44} is hydrogen, or C_1-C_{24}alkyl,

R^{45} is hydrogen, or C_1-C_{24}alkyl,

$A^{11'}$, $A^{12'}$, $A^{13'}$, and $A^{14'}$ are independently of each other H, CN, C_1-C_{24}alkyl, C_1-C_{24}alkoxy, C_1-C_{24}alkylthio, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$,

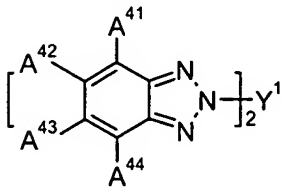
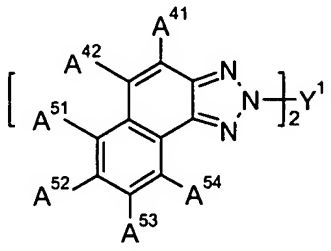
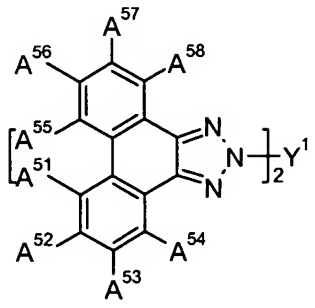
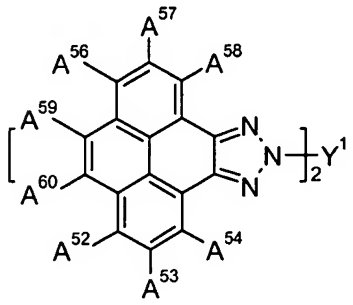
R^{68} and R^{69} are independently of each other C_1-C_{24}alkyl, which can be interrupted by one or two oxygen atoms,

R^{70}, R^{71}, R^{72}, R^{73}, R^{74}, R^{75}, R^{76}, R^{90}, R^{91}, R^{92}, and R^{93} are independently of each other H, CN, C_1-C_{24}alkyl, C_6-C_{10}aryl, C_1-C_{24}alkoxy, C_1-C_{24}alkylthio, $-NR^{25}R^{26}$, $-CONR^{25}R^{26}$, or $-COOR^{27}$,

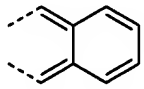
R^{25} and R^{26} are independently of each other H, C_6-C_{18}aryl, C_7-C_{18}aralkyl, or C_1-C_{24}alkyl, and

R^{27} is C_1-C_{24}alkyl.

8. **(previously presented)** An electroluminescent device according to claim **2**, wherein the 2H-benzotriazole compound is a compound of formula


(IIIa),

(IIIb),

(IIIc),

or (IIId), wherein

A^{41}, A^{42}, A^{43} and A^{44} are independently of each other hydrogen, halogen, C_1-C_{24}alkyl, C_1-C_{24}perfluoroalkyl, C_6-C_{18}aryl, -$NR^{25}R^{26}$, -CO $NR^{25}R^{26}$, or -$COOR^{27}$, or C_2-C_{10}heteroaryl, or

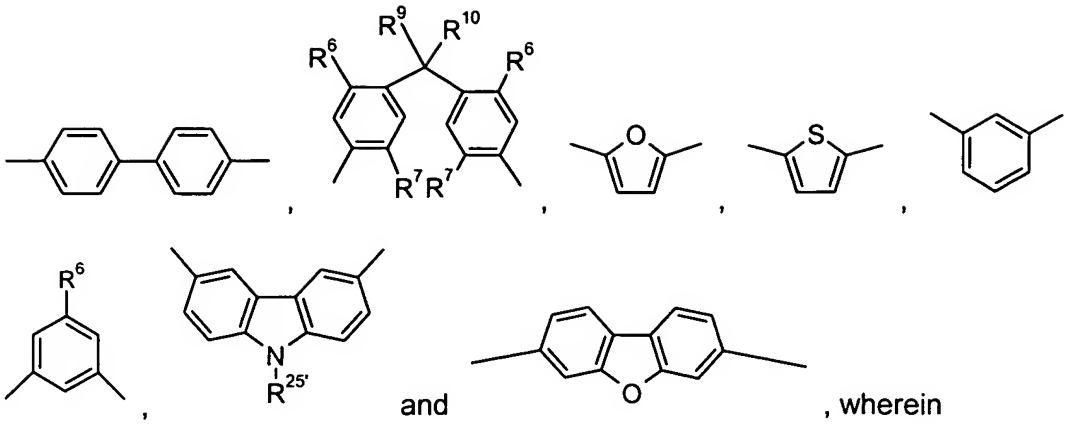
A^{42} and A^{43} are a group of formula  , or  ,

A^{51}, A^{52}, A^{53}, A^{54}, A^{55}, A^{56}, A^{57}, A^{58}, A^{59} and A^{60} are independently of each other H, CN, C_1-C_{24}alkyl, C_1-C_{24}alkoxy, C_1-C_{24}alkylthio, C_6-C_{18}aryl, -$NR^{25}R^{26}$, -$CONR^{25}R^{26}$, or -$COOR^{27}$, or C_2-C_{10}heteroaryl, wherein

E^1 is O, S, or -$NR^{25'}$-,

R^{25} and R^{26} are independently of each other H, C_6-C_{18}aryl, C_7-C_{18}aralkyl, or C_1-C_{24}alkyl, R^{27} is C_1-C_{24}alkyl, and

Y^1 is a group of formula



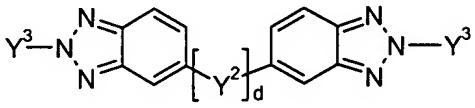
and

, wherein

R^6 is C_1-C_{24}alkoxy, or -O-C_7-C_{25}aralkyl, R^7 is H, or C_1-C_{24}alkyl, R^9 and R^{10} are independently of each other C_1-C_{24}alkyl, which can be interrupted by one or two oxygen atoms, and

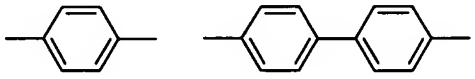
$R^{25'}$ is C_1-C_{24}alkyl, or C_6-C_{10}aryl.

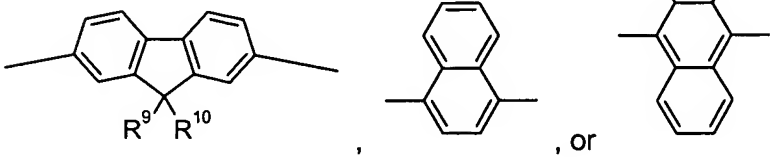
9. (previously presented) An electroluminescent device according to claim **2**, wherein the 2H-benzotriazole compound is a compound of formula



(VIa), wherein d is 0, or 1,

Y^2 is a group of formula -O-, -S-, -NR^{25}-,

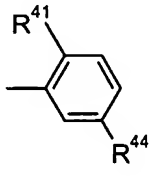




, or

,

Y^3 is a group of formula



, wherein

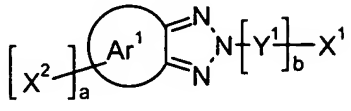
R^9 and R^{10} are independently of each other C_1-C_{24}alkyl, which can be interrupted by one or two oxygen atoms,

R^{25} is H, C_6-C_{18}aryl, C_7-C_{18}aralkyl, or C_1-C_{24}alkyl,

R^{41} is C_1-C_{24}alkoxy, or C_7-C_{15}phenylalkoxy, and

R^{44} is is H, or C_1-C_{24}alkyl.

10. (currently amended) A 2H-benzotriazole compound of the formula

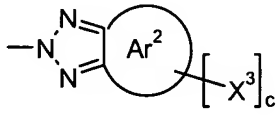


(I),

a is 0, or 1,

b is 0, or 1,

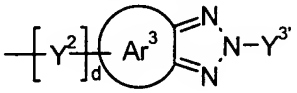
X^1 is a group of formula



, if b is 1, or Y^3, if b is 0, wherein

c is 0, or 1

X^2 and X^3 are independently of each other a group of formula

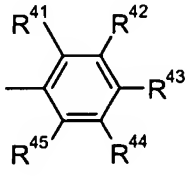


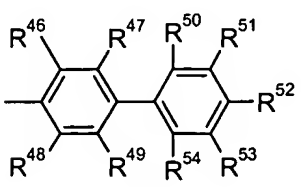
, wherein d is 0, or 1,

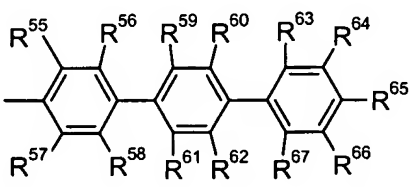
Ar^1, Ar^2, and Ar^3 are independently of each other C_6-C_{30}aryl or a C_2-C_{26}heteroaryl, which can optionally be substituted,

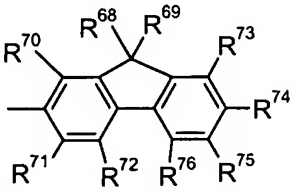
Y^1 and Y^2 are independently of each other a divalent linking group, and

Y^3 and $Y^{3'}$ are independently of each other a group of formula

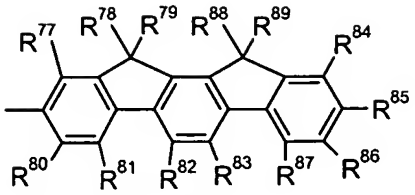




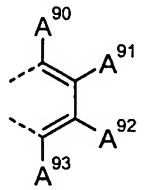


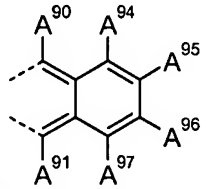


, or

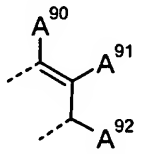


, wherein

R^{41}, R^{42}, R^{43}, R^{44}, R^{45}, R^{46}, R^{47}, R^{48}, R^{49}, R^{50}, R^{51}, R^{52}, R^{53}, R^{54}, R^{55}, R^{56}, R^{57}, R^{58}, R^{59}, R^{60}, R^{61}, R^{62}, R^{63}, R^{64}, R^{65}, R^{66}, R^{67}, R^{70}, R^{71}, R^{72}, R^{73}, R^{74}, R^{75}, R^{76}, R^{77}, R^{80}, R^{81}, R^{82}, R^{83}, R^{84}, R^{85}, R^{86}, and R^{87} are independently of each other H, C_1-C_{24}alkyl, which is optionally substituted by E and/or interrupted by D, C_1-C_{24}alkenyl, which is optionally substituted by E, C_5-C_{12}cycloalkyl, which is optionally substituted by E, C_5-C_{12}cycloalkoxy, which is optionally substituted by E, C_6-C_{18}aryl, which is optionally substituted by E, C_1-C_{24}alkoxy, which is optionally substituted by E and/or interrupted by D, C_6-C_{18}aryloxy, which is optionally substituted by E, C_7-C_{18}arylalkoxy, which is optionally substituted by E, C_1-C_{24}alkylthio, which is optionally substituted by E and/or interrupted by D, C_1-C_{24}alkylselenium, which is optionally substituted by E and/or interrupted by D, C_1-C_{24}alkyltellurium, which is optionally substituted by E and/or interrupted by D, C_2-C_{20}heteroaryl which is substituted by E, or C_6-C_{18}aralkyl, which is optionally substituted by E, or two groups R^{41}, R^{42}, R^{43}, R^{44}, R^{45}, R^{46}, R^{47}, R^{48}, R^{49}, R^{50}, R^{51}, R^{52}, R^{53}, R^{54}, R^{55}, R^{56}, R^{57}, R^{58}, R^{59}, R^{60}, R^{61}, R^{62}, R^{63}, R^{64}, R^{65}, R^{66}, R^{67}, R^{70}, R^{71}, R^{72}, R^{73}, R^{74}, R^{75}, R^{76}, R^{77}, R^{80}, R^{81}, R^{82}, R^{83}, R^{84}, R^{85}, R^{86}, and R^{87}, which are neighbouring to each other, are a group  ,

or  , wherein A^{90}, A^{91}, A^{92}, A^{93}, A^{94}, A^{95}, A^{96} and A^{97} are independently of each other H, halogen, hydroxy, C_1-C_{24}alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_1-C_{24}perfluoroalkyl, C_5-C_{12}cycloalkyl, C_5-C_{12}cycloalkyl which is substituted by E and/or interrupted by S-, -O-, or -NR^{25}-, C_5-C_{12}cycloalkoxy, C_5-C_{12}cycloalkoxy which is substituted by E, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{24}alkenyl, C_2-C_{24}alkynyl, C_1-C_{24}alkoxy, C_1-C_{24}alkoxy which is substituted by E and/or interrupted by D, C_7-C_{25}aralkyl, C_7-C_{25}aralkyl, which is substituted by E, C_7-C_{25}aralkoxy, C_7-C_{25}aralkoxy which is substituted by E, or -CO-R^{28},

R^{68}, R^{69}, R^{78}, R^{79}, R^{88} and R^{89} are independently of each other C_1-C_{18} alkyl, C_1-C_{24}alkyl which is substituted by E and/or interrupted by D, C_6-C_{24}aryl, C_6-C_{24}aryl which is substituted by E, C_2-C_{20}heteroaryl, C_2-C_{20}heteroaryl which is substituted by E, C_2-C_{24}alkenyl, C_2-C_{24}alkynyl, C_1-C_{24}alkoxy, C_1-C_{24}alkoxy which is substituted by E and/or interrupted by D, or C_7-C_{25}aralkyl, or R^{68} and R^{69}, R^{78} and R^{79}, and/or R^{88} and R^{89} form a five- or six-membered ring, or

R^{68} and R^{70}, R^{69} and R^{73}, R^{77} and R^{78} and/or R^{84} and R^{89} are a group 

,

D is -CO-; -COO-; -S-; -SO-; -SO_2-; -O-; -NR^{25}-; -$SiR^{30}R^{31}$-; -POR^{32}-; -CR^{23}=CR^{24}-; or -C≡C-; and

E is -OR^{29}; -SR^{29}; -$NR^{25}R^{26}$; -COR^{28}; -$COOR^{27}$; -$CONR^{25}R^{26}$; -CN; -$OCOOR^{27}$; or halogen;

wherein

R^{23}, R^{24}, R^{25} and R^{26} are independently of each other H; C_6-C_{18}aryl; C_6-C_{18}aryl which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-; or

R^{25} and R^{26} together form a five or six membered ring,

R^{27} and R^{28} are independently of each other H; C_6-C_{18}aryl; C_6-C_{18}aryl which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-,

R^{29} is H; C_6-C_{18}aryl; C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl, or C_1-C_{24}alkoxy; C_1-C_{24}alkyl; or C_1-C_{24}alkyl which is interrupted by –O-,

R^{30} and R^{31} are independently of each other C_1-C_{24}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl, and

R^{32} is C_1-C_{24}alkyl, C_6-C_{18}aryl, or C_6-C_{18}aryl, which is substituted by C_1-C_{24}alkyl

~~Y^3 and $Y^{3'}$ are independently of each other C_6-C_{30}aryl or a C_2-C_{26}heteroaryl, which can optionally be substituted~~.